

ALS – Analytical Measurement Uncertainty (Calculated 2/23/17)

Since 2015 there have been 30 data points (LCS) added to the data for this methods. About 15 batches were run over the last two years.

The estimations of uncertainty and bias are applied to the analytical measurements conducted by ALS. Measurement uncertainty associated with sampling design, sampling activities and related processes outside the control of the laboratory is not considered. The analytical measurement uncertainty is reported at the 95% confidence interval (Coverage Factor $(k) \sim 2$).

Analyte	Method	Media	Bias (%)	Analytical Measurement	
				Uncertainty	
Phosphine	OSHA-1003 MOD	Air	4.2	Result ± (Result * 0.14)	

The analytical measurement uncertainty was calculated in accordance with ALS SOP Lab-022 "Estimation of Uncertainty of Analytical Measurements" This uncertainty calculation meets the criteria for 50 data points.

Raw Data Generated on 2-12-17 and used to calculate uncertainty:

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Analyte	Method	N	Media	Mean	Standard Deviation		
Phosphine	OSHA-1003 MOD	144	Air	104.2	7.07		

Regards,

Robert P. Di Rienzo

Quality Assurance Manager

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ALS Environmental, (Salt Lake City, UT)

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